

## **Ultrastructure of spermatozoa in four species of Acoela flatworms and their significance for systematics**

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### **Abstract**

The ultrastructure of sperms in three Acoela species from Japan (*Otocelis rubropunctata*, *Symsagittifera japonica*, *Amphiscolops* sp.) is described for the first time. New data on the sperm ultrastructure of *Archaphanostoma agile* from the White Sea are presented. Based on the data, the phylogenetic relationships between the families Isodiametridae, Otocelididae, Sagittiferidae and Convolutidae are revised.

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